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Allowable Subject Matter

Applicants note with gratitude the Examiner's acknowledgement of the general allowability of the subject matter of Claims 9 and 10. Applicants believe the proposed addition of claims 13 and 14 obviates the objection.

Claim Rejections With Respect to the Chang Reference

The Examiner rejects claims 1-4, 6-8, 11 and 12 under 35 U.S.C. § 102(b) as anticipated by the disclosure of U.S. Pat. No. 3,941,733 to Chang. The Examiner asserts that the Chang reference generally discloses Applicants' claimed functionalized polyurethane-urea polymers. The Examiner declines to give patentable weight to the use of Applicants' polymers in cosmetic applications, reading the applicable language in the claims as a mere statement of intended use. The Examiner rejects claim 5 under 35 U.S.C. § 103(a) as rendered obvious over the disclosure of the Chang reference. While the Examiner acknowledges the Chang reference is silent as to the molecular weight of the polyol, the Examiner reads Chang as teaching all molecular weights.

Applicants respectfully traverse the rejections. Applicants have amended claim 1 to more positively recite the features of the claimed cosmetic compositions. The Chang reference does not teach or suggest the cosmetic compositions of the present invention. Indeed, the Chang reference fails to disclose or describe any compositions for cosmetic application. Rather, the Chang reference describes compositions for the treatment of leather and similar inanimate substrates (*see, e.g.*, Chang at Abstract & col. 1, lines 5-14).

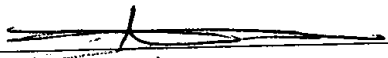
Because Chang fails to disclose or teach the cosmetic compositions of the rejected claims, Applicants respectfully assert that claims 1-8 and 11-12 are patentable over the Chang reference.

In view of the arguments and amendments offered herein, Applicants respectfully submit that the Examiner's grounds for objection and rejection are overcome and

respectfully solicit reconsideration and withdrawal of the rejections and allowance of the application.

Respectfully submitted,

Date: November 6, 2002

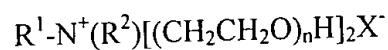
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Version With Markings to Show Changes Made:

1 (amended). A composition [in the form of] comprising an aqueous dispersion comprising at least one polyurethane-urea polymer that is functionalized with at least one hydrolyzed or hydrolyzable silyl group, wherein the composition is in the form of a cosmetic article or composition that is capable of forming a film when applied to mammalian skin, hair or nails [said composition is used in cosmetic application], and when said cosmetic application is a hair care composition, said hair care composition does not have a reshapable effect.

[9. The composition of claim 8, wherein said hydrophilic component is a cationic compound having the following structure:



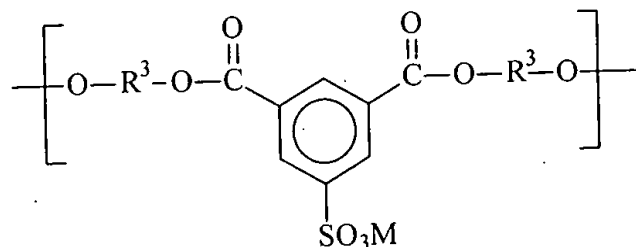
wherein R^1 is C_1 to C_{18} alkyl or C_6 to C_{18} aryl or aralkyl optionally substituted in and/or on the chain by N, O, S and combinations thereof;

R^2 is hydrogen or C_1 to C_{18} alkyl;

n is an integer from about 1 to 200; and

X is halogen, sulfate, methosulfate, ethosulfate, acetate, carbonate, or phosphate.]

[10. The composition of claim 8, wherein said hydrophilic component is a compound having the following structure:



wherein each R^3 is independently a divalent aliphatic group having an average molecular weight of 200 to 600 comprising ether or ester functional groups selected from the group consisting of:

-CH₂CH₂-(OCH₂CH₂)_n-,
-CH(CH₃)CH₂-(OCH(CH₃)CH₂)_n-,
-(CH₂)₄-(O(CH₂)₄)_n-,
-(CH₂)_mCO-[O(CH₂)_mCO]_n- groups; and
mixtures thereof;

where *m* is an integer from about 2 to 5;

n is an integer from about 2 to 15; and

M is a cation selected from the group consisting of Na, H, K, and Li, or a primary, secondary, tertiary, or quaternary ammonium cation and mixtures thereof.]

13. A composition in the form of an aqueous dispersion comprising at least one polyurethane-urea polymer that is functionalized with at least one hydrolyzed or hydrolyzable silyl group, wherein said composition is used in cosmetic application, and when said cosmetic application is a hair care composition, said hair care composition does not have a reshaping effect;

wherein said composition comprises the reaction product of:

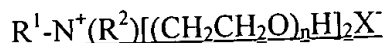
(a) at least one isocyanate terminated polyurethane-urea prepolymer comprising the reaction product of (i) at least one polyisocyanate, and (ii) at least one polyol;

(b) at least one polyfunctional chain extender;

(c) at least one silyl containing component; and

(d) at least one hydrophilic component; and

wherein said hydrophilic component is a cationic compound having the following structure:



wherein R¹ is C₁ to C₁₈ alkyl or C₆ to C₁₈ aryl or aralkyl optionally substituted in and/or on the chain by N, O, S and combinations thereof;

R² is hydrogen or C₁ to C₁₈ alkyl;

n is an integer from about 1 to 200; and

X is halogen, sulfate, methosulfate, ethosulfate, acetate, carbonate, or phosphate.

14. A composition in the form of an aqueous dispersion comprising at least one polyurethane-urea polymer that is functionalized with at least one hydrolyzed or hydrolyzable silyl group, wherein said composition is used in cosmetic application, and when said cosmetic application is a hair care composition, said hair care composition does not have a reshapable effect;

wherein said composition comprises the reaction product of:

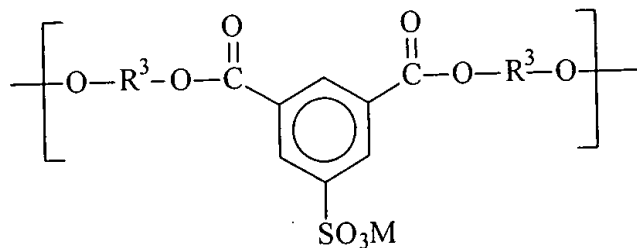
(a) at least one isocyanate terminated polyurethane-urea prepolymer comprising the reaction product of (i) at least one polyisocyanate, and (ii) at least one polyol;

(b) at least one polyfunctional chain extender;

(c) at least one silyl containing component; and

(d) at least one hydrophilic component; and

wherein said hydrophilic component is a compound having the following structure:



wherein each R³ is independently a divalent aliphatic group having an average molecular weight of 200 to 600 comprising ether or ester functional groups selected from the group consisting of:

-CH₂CH₂-(OCH₂CH₂)_n-

-CH(CH₃)CH₂-(OCH(CH₃)CH₂)_n-

-(CH₂)₄-(O(CH₂)₄)_n-

-(CH₂)_mCO-[O(CH₂)_mCO]_n- groups; and

mixtures thereof;

where m is an integer from about 2 to 5;

n is an integer from about 2 to 15; and

M is a cation selected from the group consisting of Na, H, K, and Li, or a primary, secondary, tertiary, or quaternary ammonium cation and mixtures thereof.